

JOB DESCRIPTION

Job Identification	
Position Title	Senior Laser Development Engineer
Division/Dept./Section	Technology/New Product Development

Organizational Relationship	
Reports to	VP Product Development
Supervises	Nil

Job Objective/s
Design and develop optoelectronics devices, including but not limited to FP lasers, DFB lasers, gain chips, SLEDs, semiconductor optical amplifier, electroabsorption modulator/laser, photonics integrated circuits and their packaged modules, as well as photonics systems such as external cavity lasers to meet design goals and requirements.

Duties and Responsibilities
<ul style="list-style-type: none"> • Perform simulation of optoelectronic devices (CrossLight, ALDS, Optiwave), optical ray tracing (Zemax, Optalix), thermal (Solidworks) and electrical (5Spice) properties of optoelectronics devices • Analysis of optoelectronics device epigrowth and wafer fabrication process integration, device functional and reliability performance characterization and test results, referencing to the state-of-art, simulated performance, data-mining internal test-results data-base, and refine design, fabrication specifications, and simulation model and parameters to optimize fit between design and measured outcomes • Report generation of design and simulation outcome with support of experimental data, where available • Build up database of optoelectronics device design white papers, and management of all design documentation repository • Maintenance of all engineering software, as well as training of new users to the respective software • Define and develop device test and characterization methodologies to extract basic intrinsic parameters of optoelectronics devices • All other reasonable duties, as assigned

Authorities
<ul style="list-style-type: none"> • Provides guidance and work leadership to less-experienced engineers. Serve as a technical team or task leader.

Measures of Performance	
Key Result Area	Measure of Performance

Qualification Guidelines	
Minimum Education	<ul style="list-style-type: none"> ○ Degree (in semiconductor based light emitting optoelectronics preferred)
Minimum Experience	<ul style="list-style-type: none"> ○ Minimum 8 years' working experience with technical background in optoelectronics and wafer fab processes in optical laser component, photonics device system and sub-system ○ Proven working experience in optoelectronics design and program/project management in the manufacturing industry

Specific Knowledge / Skills	<ul style="list-style-type: none"> <input type="radio"/> Excellent written and verbal communication skills <input type="radio"/> Proven organizational skills and multi-tasking skills

Acknowledge By Employee Upon Commencing			
Employee's Name			
Employee's signature		Date	

Please forward resume to DenseLight HR at hr_recruitment@denselight.com

Form # 121-004 Rev B
Effective Date: 1 March 2017